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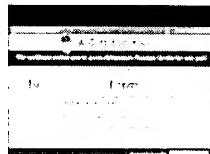
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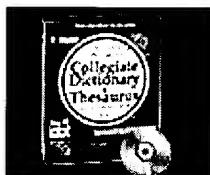
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Collegiate® Dictionary

One entry found for **humanoid**.

Main Entry: **hu·man·oid**

Pronunciation: 'hyü-mə-noid, 'yü-

Function: *adjective*

Date: 1918

: having human form or characteristics <*humanoid* dentition>

<*humanoid* robots>

- **humanoid** *noun*

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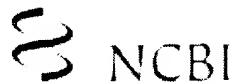
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Pronunciation Symbols

\&\ as a and u in abut	\e\ as e in bet	\o\ as aw in law
\&\ as e in kitten	\E\ as ea in easy	\o\ as oy in boy
\&r\ as ur/er in further	\g\ as g in go	\th\ as th in thin
\a\ as a in ash	\i\ as i in hit	\[th]\ as th in the
\A\ as a in ace	\I\ as i in ice	\u\ as oo in loot
\ä\ as o in mop	\y\ as j in job	\u\ as oo in foot
\au\ as ou in out	\[ng]\ as ng in sing	\y\ as y in yet
\ch\ as ch in chin	\O\ as o in go	\zh\ as si in vision

For more information see the [Guide To Pronunciation](#).



NCBI Conserved Domain Summary

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Query= gi|2506380|sp|Q08431|MFGM_HUMAN Lactadherin precursor (Milk fat globule-EGF factor 8) (MFG-E8) (HMFG) (Breast epithelial antigen BA46) (MFGM) [Contains: Medin].
(387 letters)

Database: oasis_sap.v1.58

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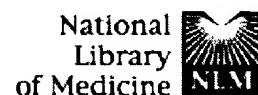
DATE: Tuesday, October 08, 2002

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<i>DB=USPT; THES=ASSIGNEE; PLUR=YES; OP=ADJ</i>			
L3	L2 and ctl	2	L3
L2	ba46	18	L2
L1	lactadherin or ba-46	1	L1

END OF SEARCH HISTORY

*After using Lactadherin, side effects
reported include: headache, constipation,*

641744, 204



PubMed	Nucleotide	Protein	Genome	Structure	PopSet	Taxonomy	OMIM	Bi
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	#1 Search journal of clinical investigation[jour] AND 110 [volume] AND 453[page] Field: Title Word	08:51:45	1

(Inventor's own work.)

None was listed in updates or
articles 570 responses, 220

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1686-pc-linux-gnu Oct 3 2002 17:23:16

Day : Tuesday
Date: 10/8/2002

Time: 08:29:34

PALM INTRANET**Inventor Information for 09/744804**

Inventor Name	City	State/Country
EISEN BACH, LEA	REHOVOT	ISRAEL
CARMON, LIOR	TEL-AVIV	ISRAEL
TIROSH, BOAZ	KIRYAT ONO	ISRAEL
BAR-HAIM, EREZ	YAVNE	ISRAEL
PAZ, ADRIAN	PETACH TIKVA	ISRAEL
FRIDKIN, MATITYAHU	REHOVOT	ISRAEL
FITZER-ATTAS, CHERYL	REHOVOT	ISRAEL

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Handwritten note: Only the inventor application and the patent and Atty docket numbers were not printed.

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Date: 10/8/2002

Time: 08:29:41

PALM INTRANET**Inventor Name Search Result**

Your Search was:

Last Name = FITZER-ATTAS

First Name = CHERYL

Application#	Patent#	Status	Date Filed	Title	Inventor Name
09744804	Not Issued	071	06/20/2001	TUMOR ASSOCIATE ANTIGEN PEPTIDES AND USE OF SAME AS ANTI-TUMOR VACCINES	FITZER-ATTAS, CHERYL
60396245	Not Issued	020	07/17/2002	PEPTIDES AND METHODS OF SCREENING IMMUNOGENIC PEPTIDE VACCINES AGAINST AD IN WHICH T-CELL EPITOPES ARE REDUCED	FITZER-ATTAS, CHERYL

Inventor Search Completed: No Records to Display.

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Time: 08:31:04

PALM INTRANET**Inventor Name Search Result**

Your Search was:

Last Name = EISEN BACH

First Name = LEA

Application#	Patent#	Status	Date Filed	Title	Inventor Name
08267848	Not Issued	161	06/29/1994	ANTI-METASTATIC VACCINE	EISEN BACH , LEA
07964719	Not Issued	166	10/22/1992	ANTITUMOR VACCINES COMPRISING IL-6 TRANSFECTED CELLS	EISEN BACH , LEA
07968415	Not Issued	166	10/29/1992	ANTI-METASTATIC VACCINE	EISEN BACH , LEA
08412512	5750102	150	03/29/1995	DOUBLE TRANSFECTANTS OF THE MHC GENES AS CELLULAR VACCINES FOR IMMUNO PREVENTION OF TUMOR METASTASIS	EISEN BACH , LEA
08028293	Not Issued	166	03/09/1993	DOUBLE TRANSFECTANTS OF MHC GENES AS CELLULAR VACCINES FOR IMMUNOPREVENTION OF TUMOR METASTASIS	EISEN BACH , LEA
08430248	5902576	150	04/28/1995	ANTITUMOR PHARMACEUTICAL COMPOSITION COMPRISING IL-6 TRANSFECTED CELLS	EISEN BACH , LEA
09744804	Not Issued	071	06/20/2001	TUMOR ASSOCIATE ANTIGEN PEPTIDES AND USE OF SAME AS ANTI-TUMOR VACCINES	EISEN BACH, LEA
60403657	Not Issued	020	08/16/2002	TUMOR ASSOCIATED ANTIGEN, PEPTIDES THEREOF, AND USE OF SAME AS ANTI-TUMOR VACCINES	EISEN BACH, LEA

Inventor Search Completed: No Records to Display.

Last Name

First Name

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Date: 10/8/2002

Time: 08:32:01

PALM INTRANET**Inventor Name Search Result**

Your Search was:

Last Name = TIROSH

First Name = BOAZ

Application#	Patent#	Status	Date Filed	Title	Inventor Name
08750674	Not Issued	071	02/28/1997	CONTROLLED RELEASE ORAL DRUG DELIVERY SYSTEM	TIROSH , BOAZ
09744804	Not Issued	071	06/20/2001	TUMOR ASSOCIATEE ANTIGEN PEPTIDES AND USE OF SAME AS ANTI-TUMOR VACCINES	TIROSH, BOAZ
60403657	Not Issued	020	08/16/2002	TUMOR ASSOCIATED ANTIGEN, PEPTIDES THEREOF, AND USE OF SAME AS ANTI-TUMOR VACCINES	TIROSH, BOAZ

Inventor Search Completed: No Records to Display.

Search Another: Inventor**Last Name**

TIROSH

First Name

BOAZ

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Day : Tuesday
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Time: 08:34:30

PALM INTRANET**Inventor Name Search Result**

Your Search was:

Last Name = FRIDKIN

First Name = MATITYAHU

Application#	Patent#	Status	Date Filed	Title	Inventor Name
08293932	Not Issued	161	08/22/1994	DERIVATIVES OF STRUCTURALLY MODIFIED VIP AND PHARMACEUTICAL COMPOSITIONS CONTAINING THEM	FRIDKIN , MATITYAHU
07376559	5147855	150	07/07/1989	CONJUGATES OF VIP AND ACTIVE FRAGMENTS THEREOF WITH HYDROPHOBIC MOIETIES AND TOPICAL COMPOSITIONS FOR MALE IMPOTENCE	FRIDKIN , MATITYAHU
08774325	5869058	150	11/25/1996	PEPTIDES USED AS CARRIERS IN IMMUNOGENIC CONSTRUCTS SUITABLE FOR DEVELOPMENT OF SYNTHETIC VACCINES	FRIDKIN , MATITYAHU
06939708	Not Issued	161	12/09/1986	IMMUNIZING PREPARATION COMPRISING TUFTSIN OR AN ANALOG THEREOF	FRIDKIN , MATITYAHU
09171654	6239107	150	04/29/1999	CONJUGATES OF LIPOPHILIC MOIETIES AND FRAGMENTS OF VASOACTIVE INTESTINAL PEPTIDE (VIP)	FRIDKIN , MATITYAHU
08379613	5736146	150	02/22/1995	CONJUGATES OF POORLY IMMUNOGENIC ANTIGENS AND SYNTHETIC PEPTIDE CARRIERS AND VACCINES COMPRISING THEM	FRIDKIN , MATITYAHU
07969444	Not Issued	166	10/30/1992	DERIVATIVES OF STRUCTURALLY MODIFIED VIP AND PHARMACEUTICAL COMPOSITIONS CONTAINING THEM	FRIDKIN , MATITYAHU

08207671	Not Issued	161	03/09/1994	USE OF VIP, ANALOGUES AND FRAGMENTS THEREOF FOR THE TREATMENT OF NEURODEGENERATIVE DISEASES	FRIDKIN , MATITYAHU
08413708	5972883	150	03/30/1995	A METHOD FOR THE TREATMENT OF NEURODEGENERATIVE DISEASES BY ADMINISTERING VIP, AN ANALOGUE, FRAGMENT OR A CONJUGATE THEREOF	FRIDKIN , MATITYAHU
09117380	Not Issued	071	01/27/1999	ANTI-INFLAMMATORY PEPTIDES DERIVED FROM C-REACTIVE PROTEIN	FRIDKIN , MATITYAHU
08897624	5998368	150	07/21/1997	DERIVATIVES OF STRUCTURALLY MODIFIED VIP AND PHARMACEUTICAL COMPOSITIONS CONTAINING THEM	FRIDKIN , MATITYAHU
08860300	6180103	150	08/07/1997	PEPTIDE P277 ANALOGS, AND PHARMACEUTICAL COMPOSITIONS COMPRISING THEM FOR TREATMENT OR DIAGNOSIS OF DIABETES	FRIDKIN , MATITYAHU
08412986	Not Issued	161	03/29/1995	DERIVATIVES OF STRUCTURALLY MODIFIED VIP AND PHARMACEUTICAL COMPOSITIONS CONTAINING THEM	FRIDKIN , MATITYAHU
08194591	5565424	150	02/07/1994	SUPERACTIVE VIP ANTAGONISTS	FRIDKIN , MATITYAHU
09242026	Not Issued	093	02/05/1999	LONG-ACTING DRUGS AND PHARMACEUTICAL COMPOSITIONS COMPRISING THEM	FRIDKIN , MATITYAHU
09763293	Not Issued	041	05/17/2001	ANTI-INFLAMMATORY PEPTIDES DERIVED FROM IL-2 AND ANALOGUES THEREOF	FRIDKIN, MATITYAHU
09446868	Not Issued	083	03/28/2000	ANTI-INFLAMMATORY PEPTIDES DERIVED FROM C REACTIVE PROTEIN	FRIDKIN, MATITYAHU
09744804	Not Issued	071	06/20/2001	TUMOR ASSOCIATEE ANTIGEN PEPTIDES AND USE OF SAME AS ANTI-TUMOR VACCINES	FRIDKIN, MATITYAHU

Inventor Search Completed: No Records to Display.

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s lactadherin or ba(w)46

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6	159: Cancerlit_1975-2002/Aug
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S2	17	S1 AND (TUMOR? OR CANCER? OR NEOPLAS?)
S3	7	RD (unique items)
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13855687 BIOSIS NO.: 200200484508

Characterization of novel breast carcinoma-associated BA46-derived peptides
in HLA-A2.1/Db-beta2m transgenic mice.

AUTHOR: Carmon Lior; Bobilev-Priel Irene; Brenner Baruch; Bobilev Dimitry;
Paz Adrian; Bar-Haim Erez; Tirosh Boaz; Klein Tirza; Fridkin Mati;
Lemonnier Francois; Tzeboval Esther; Eisenbach Lea(a)

AUTHOR ADDRESS: (a)Department of Immunology, Weizmann Institute of Science,
Rehovot, 76100**Israel E-Mail: lea.eisenbach@weizmann.ac.il

JOURNAL: Journal of Clinical Investigation 110 (4):p453-462 August, 2002

MEDIUM: print

ISSN: 0021-9738

DOCUMENT TYPE: Article

RECORD TYPE: Abstract

LANGUAGE: English

ABSTRACT: The human milk fat globule membrane protein BA46 (**lactadherin**) is highly overexpressed in human breast **tumors** , making it a potential target for **tumor** immunotherapy. We have identified BA46-derived peptides that contain the motif recognized by the MHC class I molecule HLA-A2.1 and that are processed and presented by human breast carcinoma cells. In mice lacking normal class I molecules but expressing an HLA-A2.1/Db-beta2 microglobulin single chain (HHD mice), three peptides

elicited specific CTL activity. Two of these peptides also stimulated cytotoxic activity in peripheral blood lymphocytes from HLA-A2.1-positive breast carcinoma patients. Adoptive transfer of HHD-derived bulk CTLs to nude mice bearing human breast carcinoma transplants reduced **tumor** growth. These peptides therefore represent naturally processed BA46-derived CTL epitopes that can be used in peptide-based antitumor vaccines.

DESCRIPTORS:

MAJOR CONCEPTS: Biochemistry and Molecular Biophysics; Immune System (Chemical Coordination and Homeostasis); **Tumor** Biology

BIOSYSTEMATIC NAMES: Hominidae--Primates, Mammalia, Vertebrata, Chordata, Animalia; Muridae--Rodentia, Mammalia, Vertebrata, Chordata, Animalia

ORGANISMS: MDA-MB-157 cell line (Hominidae)--human breast **cancer** cells; MDA-MB-157-HHD cell line (Hominidae)--human breast **cancer** cells;

MDA-MB-231 cell line (Hominidae)--human breast **cancer** cells; mouse (Muridae)--HLA-A2.1/D-b-beta-2 microglobulin transgenic

BIOSYSTEMATIC CLASSIFICATION (SUPER TAXA): Animals; Chordates; Humans; Mammals; Nonhuman Mammals; Nonhuman Vertebrates; Primates; Rodents; Vertebrates

CHEMICALS & BIOCHEMICALS: BA46 { **lactadherin** }; HLA-A2.1-restricted anti-BA46 cytotoxic T lymphocyte epitopes; breast carcinoma-associated BA46-derived peptides--characterization; peptide-based antitumor vaccines

3/9/6 (Item 1 from file: 34)

DIALOG(R)File 34:SciSearch(R) Cited Ref Sci

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06026005 Genuine Article#: XQ082 Number of References: 33

Title: **Lactadherin (Formerly BA46), a membrane-associated glycoprotein expressed in human milk and breast carcinomas, promotes Arg-Gly-Asp (RGD)-dependent cell adhesion**

Author(s): Taylor MR; Couto JR; Scallan CD; Ceriani RL; Peterson JA (REPRINT)

Corporate Source: CANC RES FUND CONTRA COSTA, 2055 N BROADWAY/WALNUT CREEK//CA/94596 (REPRINT); CANC RES FUND CONTRA COSTA, /WALNUT CREEK//CA/94596

Journal: DNA AND CELL BIOLOGY, 1997, V16, N7 (JUL), P861-869

ISSN: 1044-5498 Publication date: 19970700

Publisher: MARY ANN LIEBERT INC PUBL, 2 MADISON AVENUE, LARCHMONT, NY 10538

Language: English Document Type: ARTICLE

Geographic Location: USA

Subfile: CC LIFE--Current Contents, Life Sciences

Journal Subject Category: CELL BIOLOGY; BIOCHEMISTRY & MOLECULAR BIOLOGY; GENETICS & HEREDITY

Abstract: **Lactadherin**, a major glycoprotein of the human milk fat globule membrane, is abundant in human breast milk and expressed in human breast carcinomas. Previously, we have shown that the mature protein, formerly known as BA46, has three domains: an epidermal growth factor (EGF)-like domain containing an Arg-Gly-Asp (RGD) cell adhesion sequence and C1 and C2 domains similar to those found in coagulation factors V and VIII. An alignment of **lactadherin** with its bovine (MGP57/53) and murine (MFG-E8) homologs shows that the RGD sequence has been conserved during evolution, suggesting that the RGD sequence is not fortuitous. We demonstrate that **lactadherin** purified using Triton X-114 phase partitioning promotes RGD-dependent cell attachment of green monkey kidney cells (MA104), mouse fibroblast cells (3T3-L1), and breast carcinoma cells (ELL-G). A **lactadherin**-specific monoclonal antibody, Mc3, inhibits attachment to purified **lactadherin**, suggesting that contaminants in the purification are not responsible for binding. In addition, the anti-integrin alpha(v) beta(3) monoclonal antibody LM609 inhibits cell attachment of MA104 cells to **lactadherin**. These results demonstrate that **lactadherin** promotes RGD-dependent cell adhesion via integrins. Denaturation of **lactadherin** with heat and reducing conditions diminished cell attachment, suggesting that optimal cell attachment to RGD is dependent on the structural presentation of the sequence.

Identifiers--KeyWord Plus(R): MAMMARY EPITHELIAL-CELLS; FAT GLOBULE; MONOCLONAL-ANTIBODIES; INTEGRIN ALPHA(V)BETA(3); 3-DIMENSIONAL

STRUCTURE; ANTIGENS; SURFACE; PROTEIN; **CANCER**; FIBRONECTIN
Research Fronts: 95-0484 003 (TYROSINE PHOSPHORYLATION OF FOCAL ADHESION
KINASE; INTEGRIN BETA-1 CYTOPLASMIC DOMAIN MUTANTS; CULTURED MOUSE
AORTIC SMOOTH-MUSCLE CELLS)
95-0169 001 (INTERCELLULAR-ADHESION MOLECULE-1 (ICAM-1);
ENDOTHELIAL-CELL REGULATION OF LEUKOCYTE INFILTRATION; ONCOSTATIN-M
ENHANCE MEMBRANE EXPRESSION)
95-3190 001 (INCREASED ABUNDANCE OF SPECIFIC SKELETAL-MUSCLE
PROTEIN-TYROSINE PHOSPHATASES; ALPHA-B-CRYSTALLIN EXPRESSION)
95-3415 001 (TUMOR ANGIOGENESIS; ALPHA(V)BETA(3) INTEGRIN EXPRESSION;
BREAST- **CANCER** ENDOTHELIUM; PROGNOSTIC VALUE)
95-5061 001 (STRUCTURAL GENE; GLTC-DEPENDENT REGULATION OF
BACILLUS-SUBTILIS GLUTAMATE SYNTHASE EXPRESSION; ARABIDOPSIS TYPE-1
PROTEIN PHOSPHATASE)